

Having thus described the invention, what is claimed is:

1. A valve assembly for an air brake system comprising:  
a valve housing having a bore;  
5 a valve member received in the bore having a first  
portion and a second portion forming an interference fit with the  
first portion; and  
a check valve assembly interposed between the first and  
second portions and maintained in an assembled state within the  
10 first and second portions, the check valve assembly including a  
biasing member, a follower, and a check valve member.
- 15 2. The valve assembly of claim 1 wherein the first portion  
includes a recess and the second portion included protrusions  
extending therefrom and received in a friction fit engagement  
with the recess.
- 20 3. The valve assembly of claim 1 wherein the first portion  
of the valve member is formed from a non-metallic material.
4. The valve assembly of claim 1 wherein the second  
portion of the valve member is formed from a non-metallic  
material.
- 25 5. The valve assembly of claim 1 wherein the first portion  
of the valve member is formed from a non-metallic material and  
non-circular passages are provided therethrough to enhance flow.
- 30 6. A proportioning valve assembly comprising:  
a housing having a blind opening formed therein;  
a valve assembly dimensioned for receipt in the  
opening, the valve assembly including a first portion formed from  
a non-metallic material having at least one passage extending

therethrough and having a recess formed at an open end thereof,  
and a second portion formed from a non-metallic material and  
including a surface dimensioned for interference fit with the  
recess, and a check valve assembly received within the first and  
5 second portions including a spring, a spring follower, and a  
valve member disposed in abutting engagement within the first and  
second portions whereby the valve assembly is maintained in  
assembled arrangement by the interference fit between the first  
and second portions allowing the valve assembly to be easily  
10 inserted into the blind opening.

7. The assembly of claim 6 wherein the second portion  
includes raised protrusions disposed in spaced relation along the  
first portion for frictional engagement with the recess.

8. The assembly of claim 7 wherein the second portion  
includes a circumferentially continuous shoulder dimensioned for  
receipt in the recess.

9. A method of assembling a proportioning valve assembly  
having a housing with a blind opening therein, comprising the  
steps of:

providing a first non-metallic valve member portion  
having an open end defining a recess;

providing a second non-metallic valve member portion  
having a shoulder dimensioned for receipt in the recess of the  
first portion;

inserting a check valve assembly between the valve  
member first and second portions; and

frictionally engaging the shoulder in the recess to  
encase the check valve member between the first and second valve  
member portions and define a sub-assembly.

10. The method of claim 9 comprising the further step of inserting the sub-assembly into the opening in the housing.

11. The method of claim 9 including the steps of placing  
5 the check valve assembly into a cavity in the second valve member portion and advancing the first and second portions toward one another prior to the frictional engagement step.

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